

## BACCALAUREATE PROGRAM TRANSFER FRAMEWORKS

### for BIOLOGICAL SCIENCES

<i>Program (Majors) Offered in the Biological Sciences*</i>	<i>Universities Offering the Program</i>	<i>Degrees Offered</i>
Agricultural Biotechnology	UK	BS
Biochemistry	WKU	BS
Biology, General	EKU	BS
	KSU	BS
	MoSU	BS
	MuSU	BA/BS
	NKU	BA/BS
	UK	BA/BS
	UL	BA/BS
	WKU	BS
Ecology	EKU	BS
	MoSU	BA/BS
Microbiology/Bacteriology	EKU	BS
Recombinant Genetics	WKU	BS

\*A separate framework is included in this section for each program (major) on the list.

## AGRICULTURAL BIOTECHNOLOGY -- CIP 26.0499.02

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>						MA 113 or MA 123			MA 113 or MA 123
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Biology - 5 hrs						BIO 150* & 151*			BIO 150* & 151*
Chemistry - 9 hrs						CHE 105* & 107* & 115*			CHE 105* & 107* & 115*
Microbiology - 5 hrs						BIO 208 & 209			BIO 208 & 209

\* Course may also meet institutional general education requirements.

Up to 6 hrs of science coursework included in the Specialty Component meet institutional general education natural science requirements.

## BIOCHEMISTRY -- CIP 26.0202

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>								MATH 126	MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Biology - 4-5 hrs								BIOL 120* & 121*	BIO 150* & 151*
Chemistry - 9-10 hrs								CHEM 120* & 121* & 222* & 223 & 115*	CHE 105* & 107*
Organic Chemistry - 5 hrs								CHEM 340 & 341	CHE 230* & 231*

\* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

## BIOLOGY, GENERAL - CIP 26.0101

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

An 'M' below indicates that a minor, second major, or area of concentration outside the major is required.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
								M	
<b>General Education Transfer Component -- 48 hours</b>									
Communication - 9 hrs									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
Humanities - 6 hrs									
Behavioral/Social Sciences - 9 hrs									
Natural Sciences - 6 hrs									
Mathematics - 3 hrs									
Minimum College Algebra									
Other Institutional General Education Requirements - up to 15 hrs									
<b>Specialty Transfer Component -- 12 hours</b>									
Biology - 10-12 hrs	BIO 131* & 141* & 211	BIO 111* & 210 & 212	BIOL 171* & 210* & 215*	BIO 121* & 122* * 321	BIO 150* & 150L* & 151* & 151L*	BIO 150* & 151* & 152* & 153*	BIOL 220* & 240* & 241* & 330*	BIOL 120* & 121* & 222 & 223 & (220 & 221) or (224 & 225)	BIO 150* & 151* & 152* & 153*
Chemistry - 8-10 hrs	CHE 111* & 112	CHE 101* & 102	CHEM 111* & 112* or 101* & 201*	CHE 121* & 122*	CHE 120* & 120L* & 121* & 121L*	CHE 105* & 107* & 115*	CHEM 201* & 202* & 203* & 205*	CHEM 120* & 121* & 222* & 223*	CHE 105* & 107* & 115*

\* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

## ECOLOGY -- CIP 26.0603

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>									
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Biology -10-12 hrs	BIO 131* & 141* & 211		BIOL 171* & 210* & 215*						BIO 150* & 151* & 152* & 153*
Chemistry - 8-9 hrs	CHE 111* & 112		CHEM 111* & 112* or 101* & 201*						CHE 105* & 107* & 115*

\* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.

## MICROBIOLOGY / BACTERIOLOGY -- CIP 26.0501

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>	MAT 121								MAT 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
<i>Botany or Zoology - 4 hrs</i>	BIO 131* or 141*								BIO 152* & 153*
<i>Chemistry I &amp; II - 9 hrs</i>	CHE 111* & 112								CHE 105* & 107* & 115*
<i>Physics - 5 hrs</i>	PHY 131*								PHYS 211*

\* Course may also meet institutional general education requirements.

Up to 6 hrs of science coursework included in the Specialty Component meet institutional natural science general education requirements.

## RECOMBINANT GENETICS -- CIP 26.0499.01

### TRANSFER MATRIX: Requirements of the Sending Institution

**General Education Transfer Component (33 hours) + Institutional General Education (15 hours) = General Education Total (48 hours)**  
**General Education Total (48 hours) + Specialty (12 hours) = Transfer Framework (60 hours)**

NOTES: A shaded column indicates the college or university does not confer a baccalaureate degree in this program.  
 However, course numbers in shaded columns indicate that the transfer framework may be completed at that institution.

The General Education Transfer Component should be completed according to the general education requirements for this major at the sending institution, unless specific course recommendations are listed.

General Education courses may also be counted toward the major, a minor, or a second major.

	EKU	KSU	MOSU	MUSU	NKU	UK	UL	WKU	CC
<b>General Education Transfer Component -- 48 hours</b>									
<i>Communication - 9 hrs</i>									
Written Communication - 6 hrs									
Oral Communication - 3 hrs									
<i>Humanities - 6 hrs</i>									
<i>Behavioral/Social Sciences - 9 hrs</i>									
<i>Natural Sciences - 6 hrs</i>									
<i>Mathematics - 3 hrs</i>								MATH 126	MA 113
Minimum College Algebra									
<i>Other Institutional General Education Requirements - up to 15 hrs</i>									
<b>Specialty Transfer Component -- 12 hours</b>									
Biology - 4-5 hrs								BIOL 120* & 121*	BIO 150* & 151*
General Chemistry - 9-10 hrs								CHEM 120* & 121* & 222* & 223*	CHE 105* & 107* & 115*
Organic Chemistry - 5 hrs								CHEM 340 & 341	CHE 230* & 231*

\* Course may also meet institutional general education requirements.

Up to 6 hours of science coursework included in the Specialty Component meet institutional natural science general education requirements.